

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**

**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/597,173 A  
Source: PCT - efs  
Date Processed by STIC: 9-11-06

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



IFWP

## RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
 Output Set: N:\CRF4\09112006\J597173A.raw

1 <110> APPLICANT: GENEIN CO., LTD.  
 2 KIM, Cheol-Min  
 3 PARK, Hee-Kyung  
 5 <120> TITLE OF INVENTION: Oligonucleotide for genotyping of Mycoplasma, microarray  
 6 comprising the oligonucleotide, and method for detection of  
 7 species using the microarray  
 9 <130> FILE REFERENCE: PN053079  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/597,173A  
 C--> 11 <141> CURRENT FILING DATE: 2006-07-13  
 11 <160> NUMBER OF SEQ ID NOS: 133  
 13 <170> SOFTWARE: KopatentIn 1.71  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 344  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: M.bovis  
 20 <400> SEQUENCE: 1  
 21 ttctacggag tacacttgc ttttatcact ataaaaaaaaa gacttataac caaaattact 60  
 23 agacctatat ttatttataa acgtcatggc ttttattaat aggtcaaaag ctatatatct 120  
 25 agttttgaga gaacattctc tcatatgttc tttgaaaact gaatagtaaa atattttcg 180  
 27 atatttacaa cgacatcaaa aatcaaatta atggtaatt ttttttgatt catcgagtaa 240  
 29 gtcatattta atatgattca ttgaaatgtc taaaataaca catctaaaac taacaacaat 300  
 31 aggaaaatac tactttaaa taaggaagag ttttttgtgg atgc 344  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 196  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: M.cloacale  
 39 <400> SEQUENCE: 2  
 40 cttctacgga gtacaattct cactgttagt gaattaaatt tgtatccagt tttgagagaa 60  
 42 ctttctctca attttgttct ttgaaaactg aatatagaca ttgaaatcaa taaattaata 120  
 44 tttcaaattgt ttagatcaac ctatagaata ttcaagacat atacaaaaat aggtcatact 180  
 46 tatatttata aatact 196  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 196  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: M.falconis  
 54 <400> SEQUENCE: 3  
 55 ctttctacgg agtacaacctt ctgttatgga ataatatttgc tatccagtt tgagagtact 60  
 57 aactctcttt ttgttctttg aaaactgaat atcgacattt gaaaattatt aattaatatt 120  
 59 tcaaagttt gatcaaccta tagaatacaa aaatatagac aacaataggc catacaacaa 180  
 61 acataacaaa acaact 196  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 239  
 66 <212> TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/597,173A

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Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
 Output Set: N:\CRF4\09112006\J597173A.raw

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67 <213> ORGANISM: M.faucium
69 <400> SEQUENCE: 4
70 gaatggtggc ttcgagacta aaagttatgg aaaaacatcg tatccagttt tgagagaact      60
72 aaacttctct cttttgttct ttgaaaactg aatatagaca ttgaaaatta aaaaattaat      120
74 atttcaagttttagatcaac ctatagaata caaaatcaat acaataggc aataactatac      180
76 aattgcataa caaaaaatac tattaaacaa gataagagtt tttgggtggat gcaattgtta      239
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 340
81 <212> TYPE: DNA
82 <213> ORGANISM: M.spermatophilum
84 <400> SEQUENCE: 5
85 gtggggatgg atcacccctt ttctacggag tacaaacata cattcaaatt ttgactgaat      60
87 gttattaacc ttatTTTTC actaggcctt tttaatatat tttgttatgt gacttttatg      120
89 gcctaaaagt cttatatacta gttttgagag gacatccctt ctaattgttc tttgaaaact      180
91 gaatagtaaa ttttttgata ttacaaacgaa catctaaata attgaattaa gtcaattttgt      240
93 ttagatttca tcgagatagt cattttaaaaaa aatgattca ttgaaatgtc ttAAAataca      300
95 catcaaaaca aacaatctat acaataggaa tttatatact      340
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 322
100 <212> TYPE: DNA
101 <213> ORGANISM: M.synoviae
103 <400> SEQUENCE: 6
104 tccttacgga gtacattaat ttacaaaag gcatTTTAT taactgaaag ctTTtagaga      60
106 aaaattctaa aaggcggttgt gtatcgctt ttTgccttg ggctattgtt ttttagTTTg      120
108 agagaacaac ctctcttaaa attgttcttt gaaaactaaa tagtaataaa gatattacaa      180
110 cgacatcaaa aatataaaatt aattaagggtt aattttttt gataccgagt ttaattatt      240
112 gaataataat ttatTTAAAT gtcttgaat acatcataac aatataacaa taggacatat      300
114 tgatactaac ttTTAAAAAA gt      322
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 15
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
126 <400> SEQUENCE: 7
127 ttctttgaaa actga      15
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
139 <400> SEQUENCE: 8
W--> 140 rwtctttvaa aactrratno - see page 7      20
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 21
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/597,173A

DATE: 09/11/2006

TIME: 13:45:03

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
Output Set: N:\CRF4\09112006\J597173A.raw

149 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.  
152 <400> SEQUENCE: 9  
153 mwtygtrtcc agtttgaga g 21  
156 <210> SEQ ID NO: 10  
157 <211> LENGTH: 21  
158 <212> TYPE: DNA  
159 <213> ORGANISM: Artificial Sequence  
161 <220> FEATURE:  
162 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.  
165 <400> SEQUENCE: 10  
166 tttagatcaa cctatagaat a 21  
169 <210> SEQ ID NO: 11  
170 <211> LENGTH: 21  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.  
178 <400> SEQUENCE: 11  
179 rtatytagtt ttgagagrrc a 21  
182 <210> SEQ ID NO: 12  
183 <211> LENGTH: 21  
184 <212> TYPE: DNA  
185 <213> ORGANISM: Artificial Sequence  
187 <220> FEATURE:  
188 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.  
191 <400> SEQUENCE: 12  
192 wwtrattyat traaatgtct t 21  
195 <210> SEQ ID NO: 13  
196 <211> LENGTH: 17  
197 <212> TYPE: DNA  
198 <213> ORGANISM: Artificial Sequence  
200 <220> FEATURE:  
201 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.  
204 <400> SEQUENCE: 13  
205 ggkyaatttg tttwgat 17  
208 <210> SEQ ID NO: 14  
209 <211> LENGTH: 18  
210 <212> TYPE: DNA  
211 <213> ORGANISM: Artificial Sequence  
213 <220> FEATURE:  
214 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.  
217 <400> SEQUENCE: 14  
218 ratatttaca mcgmcayc 18  
221 <210> SEQ ID NO: 15  
222 <211> LENGTH: 21  
223 <212> TYPE: DNA  
224 <213> ORGANISM: Artificial Sequence  
226 <220> FEATURE:  
227 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/597,173A

DATE: 09/11/2006

TIME: 13:45:03

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
Output Set: N:\CRF4\09112006\J597173A.raw

230 <400> SEQUENCE: 15 21  
231 cctcctttct atcgaggtam a  
234 <210> SEQ ID NO: 16  
235 <211> LENGTH: 21  
236 <212> TYPE: DNA  
237 <213> ORGANISM: Artificial Sequence  
239 <220> FEATURE:  
240 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.  
243 <400> SEQUENCE: 16 21  
244 cgattatctat ttagtttga g  
247 <210> SEQ ID NO: 17  
248 <211> LENGTH: 21  
249 <212> TYPE: DNA  
250 <213> ORGANISM: Artificial Sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.  
256 <400> SEQUENCE: 17 21  
257 taaaatagat acctaakat a  
260 <210> SEQ ID NO: 18  
261 <211> LENGTH: 17  
262 <212> TYPE: DNA  
263 <213> ORGANISM: Artificial Sequence  
265 <220> FEATURE:  
266 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.  
269 <400> SEQUENCE: 18 17  
270 gatyyagtt ttgaaag  
273 <210> SEQ ID NO: 19  
274 <211> LENGTH: 16  
275 <212> TYPE: DNA  
276 <213> ORGANISM: Artificial Sequence  
278 <220> FEATURE:  
279 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.  
282 <400> SEQUENCE: 19 16  
283 ctggccaawt agwtwt  
286 <210> SEQ ID NO: 20  
287 <211> LENGTH: 21  
288 <212> TYPE: DNA  
289 <213> ORGANISM: Artificial Sequence  
291 <220> FEATURE:  
292 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.  
295 <400> SEQUENCE: 20 21  
296 awacracaat ctttcttagtt c  
299 <210> SEQ ID NO: 21  
300 <211> LENGTH: 21  
301 <212> TYPE: DNA  
302 <213> ORGANISM: Artificial Sequence  
304 <220> FEATURE:  
305 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.  
308 <400> SEQUENCE: 21

**RAW SEQUENCE LISTING** DATE: 09/11/2006  
 PATENT APPLICATION: US/10/597,173A TIME: 13:45:03

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
 Output Set: N:\CRF4\09112006\J597173A.raw

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309 aataagttac taaggcctta t 21
312 <210> SEQ ID NO: 22
313 <211> LENGTH: 18
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
321 <400> SEQUENCE: 22
322 tcatcatatt cagtttg 18
325 <210> SEQ ID NO: 23
326 <211> LENGTH: 21
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
334 <400> SEQUENCE: 23
335 gggccctrat ctcagytgg t 21
338 <210> SEQ ID NO: 24
339 <211> LENGTH: 21
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
347 <400> SEQUENCE: 24
348 agagcrcwcg cytgataagc g 21
351 <210> SEQ ID NO: 25
352 <211> LENGTH: 21
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
360 <400> SEQUENCE: 25
361 wrggtcgat ggttcragtc c 21
364 <210> SEQ ID NO: 26
365 <211> LENGTH: 21
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
373 <400> SEQUENCE: 26
374 tcatcatatt cagtttgar r 21
377 <210> SEQ ID NO: 27
378 <211> LENGTH: 21
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial Sequence
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
386 <400> SEQUENCE: 27
387 agtcttcaa aagtatcaa a 21
  
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RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 09/11/2006  
PATENT APPLICATION: US/10/597,173A                    TIME: 13:45:04

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
Output Set: N:\CRF4\09112006\J597173A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 20

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/597,173A

DATE: 09/11/2006  
TIME: 13:45:04

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
Output Set: N:\CRF4\09112006\J597173A.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
in <220> to <223> section, please explain location of n or Xaa, and which  
residue n or Xaa represents.

Seq#:8; N Pos. 20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/597,173A

DATE: 09/11/2006

TIME: 13:45:04

Input Set : N:\efs\10597173A\_efs\SEQ\_LISTING\_10597173.txt  
Output Set: N:\CRF4\09112006\J597173A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:140 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:8  
L:140 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0